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10/771,596	02/04/2004	Alfredo Herrera	16550ROUS01U	3440
34645 IOHN C. GOR	7590 04/26/2007 FCKL FSO		EXAM	INER
JOHN C. GORECKI, ESQ. P.O BOX 553			SIEK, VUTHE	
CARLISLE, MA 01741			ART UNIT	PAPER NUMBER
			2825	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary Application No. 10/771,596 Examiner Vuthe Siek The MAILING DATE of this communication appears on the corporation for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO BE WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, it after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply within the set or extended period for reply will, by statute, cause the application Any reply received by the Office later than three months after the mailing date of this communication. Responsive to communication(s) filled on 06 March 2007. Status 1) ■ Responsive to communication(s) filled on 06 March 2007. 2a) ■ This action is FINAL. 2b) ■ This action is non-30 ■ since this application is in condition for allowance except for closed in accordance with the practice under Ex parte Quaylous Disposition of Claims 4) ■ Claim(s) 1-4,7-14,16 and 17 is/are pending in the application 4a) Of the above claim(s) is/are withdrawn from considerable of the second process of the s	Applicant(s) HERRERA, ALFF	
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_	e attached Office Action or form P	TO-152.
12) Acknowledgment is made of a claim for foreign priority under		
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* See the attached detailed Office action for a list of the certified		

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date _

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

Attachment(s)

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other:

Art Unit: 2825

DETAILED ACTION

1. This office action is in response to application 10/771,596 and amendment filed on 3/6/2007. Claims 1-4, 7-14 and 16-17 remain pending in the application.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-4, 7-14, and 16-17 are rejected under 35 U.S.C. 102(e) as being anticipated by Mason et al. (6,817,005 B2).
- 4. As to claim 1, Mason et al. teach a modular design method and system for programmable logic devices (see abstract, summary) comprising obtaining design implementation files (Fig. 1B); calculating a set of design output files from the design implementation files without substantial intervention from a human operator (Fig. 2B, 3B, 8B), wherein the step of calculating a set of design output files comprises the steps of initially placing logic groups (modular designs) on the programmable logic device (Fig. 1A, initial budgeting stage including run floorplanner tool); estimating the resource usage of the logic groups (sizes, shapes and position of modules on the PLD; at least see Fig. 1A-E; col. 2 lines 58—67, col. 3 lines 1-32; col. 8 lines 45-55; col. 9 lines 18-31;

Art Unit: 2825

col. 10 lines 30-65); estimating timing for the placed and sized logic groups (at least see col. 12 lines 35-67; col. 13 lines 1-56); and filling the logic groups with primitive information (at least see col. 12 lines 35-67; col. 13 lines 1-56); and wherein the design implementation files comprising a hollowed netlist (netlist for each module; at least see col. 12 lines 61-67) and design constraints (at least see col. 13 lines 1-55), and wherein the step of initially placing logic groups comprising merging the hollowed netlist with the design constraints, and iterating until the placement of the logic groups meets the design constraints using adjusted values without substantial intervention from a user (at least see col. 13 lines 57-67; col. 14 lines 1-67; col. 15 lines 25; col. 21 lines 54-67; col. 22 lines 1-67; col. 18 lines 60-67, col. 19 lines 1-9).

- 5. As to claim 14 and 16-17, remarks set forth in rejection of claim 1 equally apply because of substantially the same claim. In addition, Mason et al. a modular design method and system for programmable logic devices including translation of file into a format usable to program a programmable logic device (at least see col. 6).
- 6. As to claim 2, Mason et al. the design implementation files comprising a filled netlist (a netlist of complete design), and data-path constraints (top-level timing constraint when all modules are assembled) (at least see col. 6).
- 7. As to claim 3, Mason et al. teach the design implementation files (Fig. 1B) are not configured to directly program the programmable logic devices, and wherein the design output files are configured to program the programmable logic devices (Fig. 2B, 3B, 8B).

Art Unit: 2825

8. As to claim 4, Mason et al. teach generating a set of scripts (different file format shown in col. 5-6), setup files (described in col. 5-6), and tool lineup files (different tool used for programmable logic devices) for use in programming the programmable logic devices (see also files in Fig. Fig. 2B, 3B, 8B, 4-5, 8A used for programming logic devices).

Page 4

- 9. As to claim 7, Fig. 1A shows design is divided into modules for initial placement (list of logic groups; see also Fig. 8B) and Fig. 1D-E shows list of area groups.
- 10. As to claim 8, Mason et al. teach estimating the resource usage of the logic groups comprising merging the filled netlist and data-path constraints and iterating until the size of logic groups is resolved (this is described in active module phase).
- 11. As to claim 9, Mason et al. teach analyzing the area usage to the programmable logic device and choosing an appropriate programmable logic device based on the usage analysis (this is done by mapper and floorplanner tool; Fig. 1A, 3A, 5).
- 12. As to claim 10, Mason et al. teach estimating timing for the placed and sized logic groups comprising merging the hollowed netlist with the data-path constraints and performing a timing analysis on the merged hollowed netlist and data-path constraints to obtain an acceptable timing margin (at least see Fig. 4).
- 13. As to claim 11, Mason et al. teach filling the logic groups (active modules) with primitive information comprising merging the filled netlists, design constraints, and area groups, and running the filled design to verify that it will meet the design constraints (at least see Fig. 4, 5 and 8A).

Application/Control Number: 10/771,596 Page 5

Art Unit: 2825

14. As to claim 12, Mason et al. teach the programmable logic device is a Field Programmable Gate Array (col. 1 lines 14-35; col. 2 lines 2-15).

15. As to claim 13, Mason et al. teach the design implementation files are files generated from Hardware Descriptor Language (HDL) files that have been subject to Register Transfer Language (RTL) Synthesis (col. 6, Fig. 1A; col. 9 lines 32-40). Note that RTL is art inherent.

Remarks

- 16. Applicants argued that Mason et al. does not teach automated process as recited without substantially intervention from a user. Examiner disagrees. Mason et al. teach using automated software tool (at least see Fig. 4-5). Note that the software tool is run automatically without substantially intervention from a user. Mason et al. teach if the design defects are relatively minor, then the user can use a tool named fpga_editor to manipulate individual CLBs and routing resources (col. 18 lines 30-34). Therefore, Mason et al. teach using automated software tool without substantially intervention from a user to implement an IC design on FPGA. Applicants acknowledged that it was possible to automate the process of designing a programmable logic device by causing design software to iterate design calculations using slightly different values without substantial intervention from a user until the placement of logic groups meets design constraints. Therefore, the claimed invention is not novel.
- 17. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

Art Unit: 2825

Page 6

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Art Unit: 2825

Conclusion

Page 7

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vuthe Siek whose telephone number is (571) 272-1906.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Chiang can be reached on (571) 272-7483. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Vuthe Siek

VUTHE SIEK PRIMARY EXAMINER